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M Steinber, AS Sethi - Network Operations and Management Symposium, 2002. NOMS 2002 ..., 2002 - ieeexplore.ieee.org

... the MPE query based on the evidence set e ... to find the best symptom explanation with causal dependencies between ... n to denote the number of nodes (bridges, routers ...

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Real time intelligent sensor validation - [all 2 versions](#) -

PH Ibarzengozyla, LE Sucar, S Vadra - Power Systems, IEEE Transactions on, 2001 - ieeexplore.ieee.org

... Thus, given more evidence about the state of apparent faults in the ... 5. Bayesian network

for this application ... between two variables form one kind of nodes in a ...

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SEDRET—an intelligent system for the diagnosis and prediction of events in power plants - [all 3 versions](#) »

G Arroyo-Figuerola, Y Alvarez, LE Sucar - Expert Systems With Applications, 2000 - Elsevier

... 1. Temporal nodes Bayesian network for the drum level system ... the event(s); 2.

propagation of the evidence occurrence through ... The attributes of each node are name ...

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[PS] Bayesian fault detection and diagnosis in dynamic systems - [all 19 versions](#) »

U Lerner, R Pan, D Koller, G Biswas - Proc. AAAI, 2000 - robotics.stanford.edu

... connection between the D nodes to react ... 3.1 Tracking and smoothing Our dynamic

Bayesian network represents the ... into consideration all of the evidence up to ...

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Improving the analysis of dependable systems by mapping fault trees into Bayesian networks - [all 3 versions](#) -

A Bobbio, L Portinale, M Minichino, E Ciancamerla - Reliability Engineering and System Safety, 2001 - Elsevier

... $XE \models$ for each variable X , given the evidence E . While ... 4. (a) Fault tree and (b) Bayesian

network for the ... 4b, the CPT entries for the node Fault (corresponding ...

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[PDF] Not-So-Naïve Bayesian Networks and Unique Identification in Developing Advanced Diagnostics - [all 2 versions](#) -

J Sheppard, S Butcher, M Kaufman, C MacDougall - Proceedings of the IEEE Aerospace Conference, 2006 - cs.jhu.edu

... The NBN starts out as a naïve Bayesian network by assuming evidence nodes

are conditionally independent given the class nodes. ...

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[PDF] Bayesian Belief Networks - [all 2 versions](#) -

S Wooldridge - 2003 - mrcmengang.org

... Note that for the case displayed, no evidence has been instantiated, therefore ... or

false) simply refer to the m distribution across all nodes ... 14 Causal Inference ...

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Evaluation of Bayesian networks used for diagnostics - [all 3 versions](#) -

KW Przytula, D Dash, D Thompson - Aerospace Conference, 2003. Proceedings, 2003 IEEE, 2003 - ieeexplore.ieee.org

file:///C/UDocuments%20and%20Settings/ispate13/My%20Documents/e-Ref%20Fold.../at%20posterior%20system%20diagnos%20failure%20%20Google%20scholar.htm (1 of 2)7/3/2008 8:48:23 AM

... 3.2 Bayesian Network Evaluation Algorithm ... 3.2. Using BN inference, calculate the posterior distribution of that node given the evidence so far. 3.3. ...

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Accounting for false indication in a Bayesian diagnostics framework

JW Sheppard - AUTOTESTCON 2003. IEEE Systems Readiness Technology ..., 2003 - ieexplore.ieee.org

... predicting probability of false indication, predicting probability of failure ... and

full information about the system under test, diagnostic errors will ...

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[PDF] Applications of object-oriented Bayesian networks for causal analysis of process disturbances

G Weiß, A Madsen, E Dahlquist - Proc. 44th Scandinavian Conf. Simulation and Modeling, 2003 - isa.uni-stuttgart.de

... in the system design and providing evidence for automated ... A Bayesian network is a

set of nodes representing ... dependency relations of the child node on the ...

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Equivalence and synthesis of causal models

T Verma, J Pearl - Proceedings of the Sixth Annual Conference on Uncertainty in ..., 1990 - portal.acm.org
... Probabilistic decision graphs-combining **verification** and AI ... Gregory F. Cooper, **Model**

Averaging for Prediction with Discrete **Bayesian Networks**, The Journal ...

Cited by 222 - Related Articles - Web Search

Coverage Directed Test Generation for Functional **Verification** using **Bayesian Networks** - all 16 versions »

S Fine, A Ziv - Proceedings of Design Automation Conference (DAC), 2003 - doi.ieeecomputersociety.org
... in the otherwise highly automated **verification** process. ... first setting, we used
a **Bayesian network** to generate instruction streams to an abstract **model** of the ...

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[BOOK] Expert Systems and Probabilistic Network Models

E Castillo, JM Gutiérrez, AS Hadi - 1997 - books.google.com
... Chapter 6 presents the Markov and **Bayesian network models** as two of the most widely
used graphical ... 481 11.2 Measuring the Quality of a **Bayesian Network Model**

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[PDF] Modelling gene expression data using dynamic **Bayesian networks** - all 13 versions »

K Murphy, S Mian - University of California, Berkeley, 1999 - cs.ubc.ca
... all special cases of a general class of models called Dynamic **Bayesian Networks**
(DBNs). The advantages of DBNs include the ability to **model** stochasticity, to ...

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Evidential reasoning using stochastic simulation of causal models - all 2 versions »

J Pearl - Artificial Intelligence, 1987 - portal.acm.org
... the abstract hidden Markov **model**, Hidden Markov **models**: applications in ... Ozeta, On
the use of **Bayesian Networks** to develop ... General Terms: Theory, **Verification**. ...

Cited by 218 - Related Articles - Web Search

... of inferring genetic regulatory interactions from microarray experiments with dynamic **Bayesian** ... - all 13 versions »

D Husmeier - Bioinformatics, 2003 - Oxford Univ Press
... from those associated with the edges of a **Bayesian network**, which means, we have
a mismatch between the real data-generating process and the **model** used for ...

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[BOOK] Artificial intelligence: a modern approach - all 9 versions »

SJ Russell, P Norvig
... use of AI planning for handsets **network** test automation ... Dohsaka , Akira Shimazu,
A computational **model** of incremental ... M. Coughlan , AL Yuille, **Bayesian** a* tree ...

Cited by 7823 - Related Articles - Web Search

Probabilistic Boolean networks: a rule-based uncertainty **model** for gene regulatory networks - all 12 versions »

I Shmulevich, ER Dougherty, S Kim, W Zhang - Bioinformatics, 2002 - Oxford Univ Press
... provide new hypotheses for experimental **verification**. ... regulatory **networks**, including
linear **models** (van Someren ... et al., 1999), **Bayesian networks** (Murphy and ...

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[Learning internal representations by error propagation - all 3 versions »](#)

DE Rumelhart, GE Hinton, RJ Williams - Mit Press Computational Models Of Cognition And Perception ... , 1986 - portal.acm.org

... Automating judgmental decisions using neural **networks**: a **model** for processing ...

Sun-Mi Lee , Patricia A. Abbott, **Bayesian networks** for knowledge discovery in ...

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[\[BOOK\] Probabilistic similarity networks - all 2 versions »](#)

DE Heckerman - 1991 - MIT Press Cambridge, MA, USA

... probabilistic graphical **models**, Artificial Intelligence, v ... Moises Goldszmidt, **Bayesian Network** Classifiers ... Experimentation, Performance, Theory, **Verification** ...

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Key authors: [J Pearl](#) - [E Castillo](#) - [S Russell](#) - [D Rumelhart](#) - [T Verma](#)

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[A Bayesian network approach to making inferences in causal maps - all 8 versions >](#)

S Nakarni, PP Shenoy - European Journal of Operational Research, 2001 - Elsevier

... This is called the procedure of **evidence propagation**, ie, how ... able to combine them into a **conclusion** and **decision** ... of the variables in a **Bayesian network** is to ...

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[\[PDF\] A survey of algorithms for real-time Bayesian network inference - all 6 versions >](#)

H Guo, W Heu - In the joint AAAI-02/KDD-02/UAI-02 workshop on Real-Time ..., 2002 - cis.ksu.edu

... of an evaluation (map of the evidence and query nodes). ... Applying NFL to the problem

of **Bayesian network** inference, we can draw the **conclusion** that there ...

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[DIAVAL, a Bayesian expert system for echocardiography - all 5 versions >](#)

FJ Díez, J Mira, E Iturralde, S Zubillaga - Artificial Intelligence in Medicine, 1997 - Elsevier

... 5. Conclusions ... and by the application of the local conditioning algorithm for propagating evidence. ... However, DIAVAL is not only a **Bayesian network**, but a true ...

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[The evaluation of evidence in the forensic investigation of fire incidents \(Part I\): an approach ... - all 4 versions >](#)

A Biedermann, F Taroni, O Delmont, C Semadeni, AC ... - Forensic Science International, 2005 - Elsevier

... 7. Discussion and conclusions. ... assisting this process, since the value of **evidence**

is expressed ... Moreover, the use of a **Bayesian network** shows that an ultimate ...

[Cited by 9 - Related Articles](#) [Web Search](#)

[Local conditioning in Bayesian networks - all 8 versions >](#)

FJ Díez - Artificial Intelligence, 1996 - Elsevier

... known methods and, finally, the **conclusion** offers suggestions ... even be integrated with **evidence propagation** (Section 4 ... how to transform a **Bayesian network** (Fig. ...

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[A causal mapping approach to constructing Bayesian networks - all 10 versions >](#)

S Nakarni, PP Shenoy - Decision Support Systems, 2004 - Elsevier

... variables, which constitute the observed **evidence** [25 ... to combine them into a **conclusion** and **decision** ... acyclic graphical structure required in a **Bayesian network**. ...

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[Symbolic propagation and sensitivity analysis in Gaussian Bayesian networks with application to ... - all 5 versions >](#)

E Castillo, JM Gutiérrez, AS Hadi, C Solares - Artificial Intelligence in Engineering, 1997 - Elsevier

... Finally, in section 7 we give some **conclusions**. ... Then, the next step in **Bayesian network** formulation ... and efficient method for **evidence propagation** in Gaussian ...

[Cited by 3 - Related Articles](#) [Web Search](#) [All Direct](#)

Application of a Bayesian network in a GIS based decision making system - all 5 versions »

A Stassopoulou, M Petrou, J Kittler - International Journal of Geographical Information Science, 1998 - ingenieriaconnect.com

... conclusions concerning the input nodes. ... The purpose of the **Bayesian network** is to give a belief in each ... being in each of its states given the **evidence** observed ...

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[PDF] A Bayesian belief network approach to multi-sensor kinematic and attribute tracking

ML Krieg - 2002 - dspace.cdst.defence.gov.au

... 4) have proposed a generalised Bayesian network structure with a ... lated tracking example, and the conclusions drawn from ... Figure 1: Evidence propagation in a BBN ...

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[PDF] Explanation for causal Bayesian networks in Elvira - all 2 versions »

C Lacave - iDAMAP 2002, 2002 - rouxemmanuel.free.fr

... the macro level analyzes the main lines of reasoning that led to the conclusions. ...

Definition 1 Given a **Bayesian network** \mathcal{E} and a certain **evidence**, an **Evidence** ...

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Key authors: **F Diez** - **S Nadkarni** - **P Shenoy** - **D Spiegelhalter**... - **J Mira**

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